**Applied Project Proposal**

Project Name: SunDevil Connect

Department: Information Technology

Mentor: Usha Jagannathan

Team Members:

Ramya Varakantham

**Problem Statement:**

The enrollment of international students at Arizona State University(ASU) is growing every year. Majority of the students are opting for off-campus housing which requires them to stay in a temporary location before they can move to a permanent one. So, there is a need for finding a temporary accommodation for atleast a week.

Many ASU organizations, such as International Student Advising and Appointments (ISSC) and Indian Student Association (ISA), strive to resolve this issue by making several calls to their circle of friends asking if they can temporarily accommodate international students. There is no organized way of finding temporary accommodation for international students on their arrival to Phoenix. This is a real world problem that is increasing every year and may be applicable to other Universities in USA.

**Objective:**

We are proposing a webportal that will organize the entire process of finding accommodation for international students prior to their arrival. Student volunteers and faculties can post their willingness to accommodate international students in the portal, and international students can express their interest and communicate with volunteers through the portal to confirm their temporary accommodation even before their arrival to USA.

What does it solve:

1. Eliminates the need for ISSC, ISA and other similar organizations from making phone calls which saves a lot of time and effort.
2. Expands the volunteer base. Currently the volunteer base is limited to ASU organizer’s short contact list.
3. Provides statisctics on number of vacancies available vs the number of incoming students. Organizers can use this data to look for additional volunteers if necessary.
4. Speeds up the entire process of finding accommodation for arriving students.
5. Also, provides options to arrange secondary accommodation ahead of time if their primary choice becomes unavailable.
6. Keeps track of number of students accommodated by each volunteer. Organizers can use this data to reward volunteers and encourage more students to volunteer for temporary accommodation.

**Beneficiaries:**

1. ASU International students
2. ASU organizations : ISSC, ISA and other similar ASU organizations.

**Project Scope:**

The primary scope of the project is to establish an organized and semi-automated way of arranging temporary accomodation for incoming internationl students. In addition, it will provide airport pickup option, Off-Campus permanent housing listings and statistics on volunteer activities.

**Technologies Proposed:**

Front end: Angular JS - Java script framework,Bootstrap, HTML, CSS.

Data Base: Mongo DB (tentative).

Server Side: Node JS – platform , Express JS – Web Framework.

Version control: Github.